



Traveling-Wave Tube Amplifiers (TWTAs) for Space

Originally developed to meet the transmission needs of space missions, Stellant’s Traveling-Wave Tube Amplifiers (TWTAs) are small-size, low-mass, high-frequency, high-reliability amplifiers with unprecedented output power, bandwidth, and efficiency.

Stellant’s Traveling-Wave Tubes Amplifiers (TWTAs) are key components for satellite communications.

We have six decades of experience developing TWTs/TWTAs for space-based applications and recently introduced our Q-Band 200 W Downlink TWTA and V-Band 200 W Uplink TWT to better serve the high-throughput satellite market.

The key to a higher throughput satellite for these operators is a higher-power, wideband downlink signal. We are reshaping the TWTA market by introducing new, revolutionary technologies to accommodate Q-/ V-band needs.

In Orbit: > 4100

Operating Hours: 300 million | Spot FIT Rate: < 100

**The ONLY Vertically Integrated
Space Traveling Wave Tube
Amplifier (TWTA) Supplier in
the World**

**The ONLY Manufacturer of
Space-qualified Traveling Wave
Tubes (TWTs) in the USA**



S, C, X, Ku, Ka-Band Dual LCTWTA

S, C, X, Ku, Ka-Band Single LCTWTA

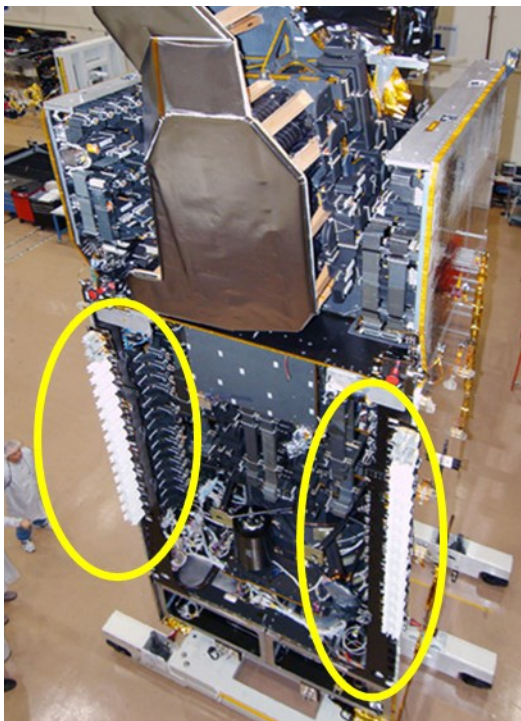
Ka-/ Q-Band LCTWTA

Q-/ V-Band TWTA



Traveling-Wave Tube Amplifiers (TWTAs) for Space

STELLANT'S RADIATION-COOLED TWTAs



Our TWTAs Still Operating on Voyager Since 1977

Stellant Systems is a premier manufacturer of critical spectrum and RF power amplification products to the space, defense, medical, science and industrial markets for both domestic and international customers. Stellant has 5 domestic manufacturing facilities and approximately 1,100

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